

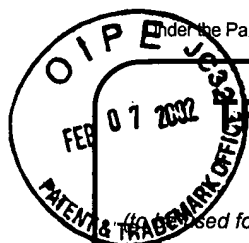
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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> (Use for all correspondence after initial filing)		<b>Application Number</b>	09/868,678
		<b>Filing Date</b>	February 8, 1999
		<b>First Named Inventor</b>	O'Connor
		<b>Group Art Unit</b>	
		<b>Examiner Name</b>	
<b>Total Number of Pages in This Submission</b>	1	<b>Attorney Docket Number</b>	05222.00155

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ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>Form 1449</b> <b>Return Receipt Postcard</b>
<b>Remarks</b>		<b>Please charge any additional fees or credit overpayment to Deposit Account No. 01-0850. A duplicate copy of this sheet is enclosed.</b>

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
<b>Firm or Individual name</b>	Charles L. Miller Banner & Witcoff, Ltd.
<b>Signature</b>	
<b>Date</b>	February 4, 2002

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <input type="text"/>			
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By: *Tony Harris*  
(person actually depositing)

In the Application of: O'Connor, et al.

Serial Number: 09/868,678

Filing Date: February 8, 1999

Title: A System, Method and Article of Manufacture for a Goal Based Educational System  
with Support for Dynamic Personality Feedback

X Information Disclosure Statement

X Form 1449

X Transmittal letter

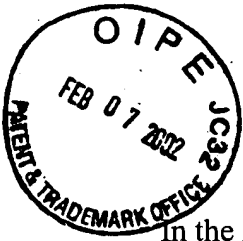
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Attorney Docket No.: 05222.00155

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 05222.00155)

In the Application of: )

O'Connor, et al. )

Serial No.: 09/868,678 )

Filed: February 8, 1999 )

For: System, Method and Article of )

Manufacture for ..... )

Group Art Unit: n/a

Examiner: n/a

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97-1.98, applicants wish to make the following references of record in the above-identified application. These references may be material to the patentability of the presently pending claims. A completed Form -1449 is enclosed. Due to the large number of references and large number of related applications, the Applicant filed a single copy of all of the references in U.S. patent Application Serial No. 09/219,478 in an Information Disclosure Statement filed February 7, 2002. U.S. Patent Application Serial No. 09/219,478 is assigned to Examiner Ingberg in Group Art Unit 2122.

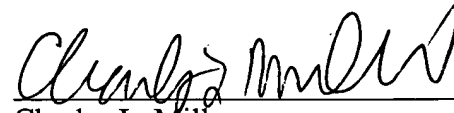
A Protest under 37 C.F.R. 1.291 was filed in U.S. Patent Application Serial No. 09/219,478. The Applicant is attaching a copy of the Protest, as well as a Response filed in the same application by the Applicant. The prosecution of U.S. Patent Application Serial No. 09/219,478 remains open. The Protest and Response are attached as a courtesy to the Examiner, but are not being listed on the attached Form-1449, because they are not prior art references.

This Information Disclosure Statement is being filed within three months of the application filing date or before the mailing of a first Office Action on the merits, accordingly, no fee or separate requirements are required. However, if a fee is due in

connection with this filing, please charge any fees or credit overpayment associated with this paper to Deposit Account No. 01-0850

Respectfully submitted,  
BANNER & WITCOFF, LTD.

Date: February 7, 2002

A handwritten signature in cursive script, appearing to read "Charles L. Miller", written over a horizontal line.

Charles L. Miller  
Reg. No. 43,805



Submit this form for form 1449 A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-4,622,013	11/11/1986	Cherchio	
		US- 4,874,784	10/17/1989	Clancey	
		US- 4,981,766	01/02/1990	Derr, et al.	
		US- 4,931,950	06/05/1990	Isle, et al.	
		US- 4,964,077	10/16/1990	Eisen, et al.	
		US- 4,977,529	12/11/1990	Gregg, et al.	
		US- 5,002,491	03/26/1991	Abrahamson, et al.	
		US- 5,170,464	12/08/1992	Hayes, et al.	
		US- 5,189,402	02/23/1993	Naimark, et al.	
		US- 5,208,745	05/04/1993	Quentin, et al.	
		US- 5,208,898	05/04/1993	Funabashi, et a	
		US- 5,239,617	08/24/1993	Gardner, et al.	
		US- 5,259,766	11/09/1993	Sack et al.	
		US- 5,267,865	12/07/1993	Lee, et al.	
		US- 5,310,349	05/10/1994	Daniels, et al.	
		US- 5,311,422	05/10/1994	Loftin, et al.	
		US- 5,317,688	05/31/1994	Watson, et al.	
		US- 5,326,270	07/05/1994	Ostby, et al.	
		US- 5,359,701	10/25/1994	Chiang, et al.	
		US- 5,372,507	12/13/1994	Goleh	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 0 689 132 A2	12/27/95	Laffra		
		EP 0 710 942 A2	05/08/96	Siefert		
		EP 0 710 942 A2	05/08/96	Siefert		
		EP 0 798 655 A2	10/01/97	Jervis, et al.		
		WO 00/04478	01/27/00	Jonsson		
		WO 97/44766	11/27/97	Cook		
		WO 98/03953	01/29/98	Simmons		
		WO 98/25251	06/11/98	Ho		
		WO 98/32109	07/23/98	De Lange		

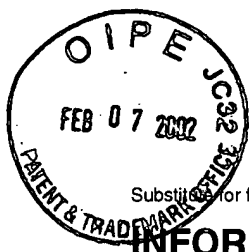
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<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

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		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html	
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story, 1996.	
		"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

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Signature

Date  
Considered

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**Filing Date: 02/08/1999**

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

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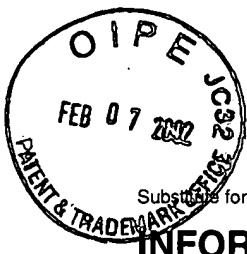
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
		"KBLPS Overview" at <a href="http://www.cgi.com/CGIWEB/KBLPS/overindex4.html">www.cgi.com/CGIWEB/KBLPS/overindex4.html</a>	
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 138-141	
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rtdl57.html">http://www.centurionsys.com/rtdl57.html</a> , Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a>	
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

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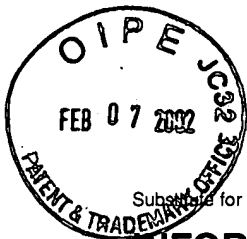
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		"Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hot/mcarthur/Papers/aied.html">http://www.rand.org/hot/mcarthur/Papers/aied.html</a>	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.irdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.irdc.pitt.edu/its-arch/papers/tam.html</a>	
		"Brainmaker" at <a href="http://www.npiec.on.ca/~echoscan/28-04.htm">www.npiec.on.ca/~echoscan/28-04.htm</a>	
		"News for ESAP" at <a href="http://www.hops.wharton.upenn.edu/~esap/news.html">www.hops.wharton.upenn.edu/~esap/news.html</a>	
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
		"Microworlds and Simuworlods: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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Application Number : 09/868,678

**Filing Dat : 02/08/1999**

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

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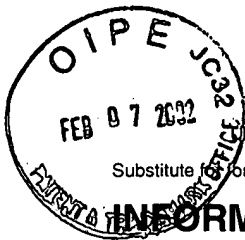
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		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Application Number : 09/868,678**

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

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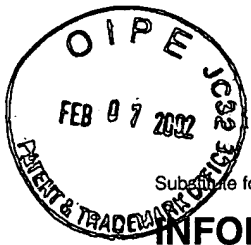
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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
		"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
		"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: <a href="http://www.iscs.nus.edu.sg/labs/learning/els/VRML.html">http://www.iscs.nus.edu.sg/labs/learning/els/VRML.html</a> ; viewed Feb. 16, 1999	
		Flexible Learning, Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33+	
		"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997	
		"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
		"Intelligent Tutoring Systems: An Overview" at <a href="http://www.intellectbooks.com/authors/lawler/its.htm">http://www.intellectbooks.com/authors/lawler/its.htm</a>	

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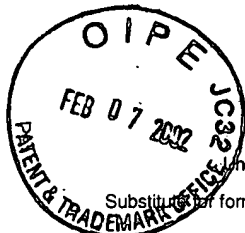
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		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
		"Rule-Based Programming with OPS5" at <a href="http://www.mkp.com/books_catalog/O-934613-51-6.asp">www.mkp.com/books_catalog/O-934613-51-6.asp</a>	
		"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997	
		"MUSE U.S. Patents" at <a href="http://www.muser.com/html/patents.html">www.muser.com/html/patents.html</a>	
		"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
		"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
		"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
		"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994	
		"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
		"Simulation Technology and Parallelism in Learning Environments" at <a href="http://www.to.utwente.nl/prj/min/Book/chapter1.htm">http://www.to.utwente.nl/prj/min/Book/chapter1.htm</a>	

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Application Number : 09/868,678

Filing Dat : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

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		"Engines for Education" URL: <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; viewed Feb. 15, 1999.	
		"FinPlan System" at <a href="http://www.rrai.org.ru/FinPlan/">www.rrai.org.ru/FinPlan/</a>	
		"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
		"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
		"Teaching with the internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at <a href="http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html">http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html</a>	
		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a>	

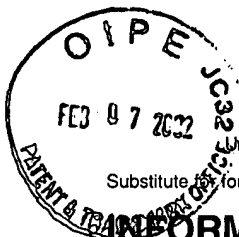
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First Named Inventor: O'Connor

Group Art Unit: n/a

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		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
		"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
		"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, Nov.-Dec. 1994	
		"Automate Your Business Plan" at <a href="http://www.business-plan.com/screen2.html">www.business-plan.com/screen2.html</a>	
		"Kiplinger TaxCut Press Releases" at <a href="http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html">http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html</a>	
		"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/ttdlx.html">http://www.intuit.com/turbotax/prodinfo/ttdlx.html</a>	
		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1996	
		"Template Software Business Simulator, Chapter 8, August 1997	
		"Template Software Workflow Simulator, Chapter 8, June 1998	
		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

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		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

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